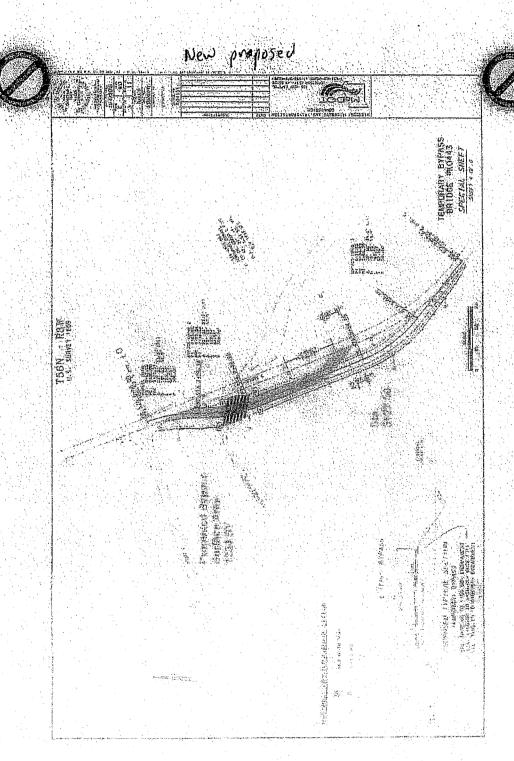
Form (310) Rev. 027200

VALUE ENGINEERING CHARGE PROPOSAL MISSOURI DEPARTMENT OF TRANSPORTATION III Proposal

⊠ Conceptua	l Proposal	L Juni Proposai		Da	te 4-4-1	i de de la
Contract ID	110121-301		Job No.	1313080716		
County Pil	te, Ralls, ant	Lincoln	Original	Bid Cost 1,	381,789.00	
Contractor	Lehman Co	nstruction LLC	By K	enny Lehman		
Designed By	Kenny Lehi	nan	Phone	573-796-810	1	
VECP# 11	-29 (10	be completed by C.O.)	YEEP [] or PD	VECP 🔯	
enisiu approx atape i 950.C	ig planned for Irnale surface Ilnale surface Il This project Cof Class A t	requirements and proposed apprary bypass on BR04431 area of 2029 SY bypass. W area of 1234 SY bypass. W By reducing this area at w excavation, and 45 ton of Ca	on Rie II in 'espropose to 'esteel this wi ill efiminate a	Saverion, IMO c shorten this by Il still allow ou maoximatels, 9	onsisi of an Pass-up to an Forew chong 51 CY of ea	in room to
	f proposed el reduction ir		1.954.00			
Should	eand opera illeffect					
Specificatio	ories and still		j. di Teres ver 	juired by Sect	ion IVAS of	(b)
. Deadline lo contract con	npletwe tm	rage order to obtain most roge order valuedale	mano cost cor	lucios, noing	t the effect i	
Markon parameter a la jurg	7-15-11 (dair)	Could effect ((effecti		and the state of t
. Pates of any	previous or	emicurrum sulumission of	she same pro	mkal.		
		date and	Aur daies)			

FREE CO. D. C.	rtion Below This Line To Be billed Out by MoDOT **	
Soutesty France of the state of the season o	In sensin of the designed temperary Exposite temperary Exposite temperary Exposite temperary Exposite temperary temperate temp	The contractor The contractor The contractor To No 2011 5/13/2011
is probably doable for provide dece	with RE comments. Shortening of the plant the South end Fransition would so the horizontal allement for traffic e Safely. So, quantities probably can be such as contractor has proposed. Will need amount will change - Macy Backsbaught - Sistematic Engineer For Aura Goust	till need to be e reduced to field adjusty
Comments: Approval Reconnected	Not Required.	
	Federal Highway Administration Required for FITWA Full Greenight Projects contingent on satisfactory results achieved	
consequences includin	gement by the contractor that they are respong unanticipated impacts or delays. Digitally signed by Roneld Morris DNI: cm=Ronald Morris, c=McDOT, due	m31745,
Approval Rejection	Sing Construction and Agricults Engineer	Lore



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				MISSOURI HIGHWAY AN	TRANP	ORTATION COL	MMISSION				
				CHAN	IGE O	RDER					
Page 1 of	001154	10 Lehman (Construction,	L.L.C.		Contractor			Change Order Contrac Federal Project Ro Cou	t ID 110121-36 No. FAS-5325 oute WW, E, W Lincoln Ralis	(1)
ESTIMAT	form revise E OF COS	19110901 cogs		ING CHANGES FROM THE CONTRACT: THIS CHANGE ORDER				. 1	Change Order T Federal Overs	ype Division A	pproval
PROJECT NUMBER		ITEM CODE	GATEGORY NUMBER	DESCRIPTION	UNITS	CONTRACTOR OF THE POST	UNITS:TO:BE CONSTRUCTED	UNITS OVERRUN. UNDERRUN CONTINGENT	CONTRACT OR AGREED UNIT PRICE	AMDUNT OF OVERRUN OR PLUS CONTINGENT	AMOUNT OF UNDERRUN OR MINUS CONTINGENT
0476163 2200014	SWEEKS.	4461.38c. 93	CONTRACTOR OF THE	aV_{ij}	100	5000000	4.32.22				COMMINGEN
3B0801K	0300	2031000	0101	CLASS A EXCAVATION	CUYD	4,774.0000	3,044.0000	(1730.0000	\$7.500		(\$12,975.00)
	0310	2035500	0101	EMBANKMENT IN PLACE	CUYD	1,537.0000	838.0000	(699.0000)	\$4,000		(\$2,796.00)
	0320	2036000	0101	COMPACTING EMBANKMENT	CUYD	415.0000	403.0000	(13.0000)	\$8.000		(\$104.00)
	0360	3107002	0101	GRAVEL (A) OR CRUSHED STONE (B) OR CHAT (C)	TONS:	148.0000	102.0000	(46.0000)	\$45.000		(\$2,070.00)
	5004	1099902	0301	MISC. COSTS 50%/50% Vlaue Engineering Savings -	EA	0.0000	.5,286.2500	5286,2500	\$1,000	\$5 786 25	<u> </u>

RECEIVED NOV 1 6 2017 Contractor Approval done 11/15/11 the RE Approval done 11/17/11 No1

Temporary Bypass

SETTLEMENT FOR COST OF THE ABOVE CHANGE TO BE MADE AT CONTRACT UNIT PRICES, EXCEPT AS NOTED:

OVERRUN THIS ORDER (\$12,658,75) OVERRUN PREVIOUS ORDERS (\$23,892.75) TOTAL OVERRUN TO DATE <u>(\$36,551.50)</u> TOTAL \$1,345,237.50 Signatures required on first page Approved Residered R. Noland Resident Engineer Approved - District Enginee Digitally signed by Dennis Brucks
DN: cn=Dennis Brucks, o=Field Office,
ou=6N25,
email=Dennis.Brucks@modot.mo.gov, c=US

Approved - Division Construction & Materials Engineer

\$1,381,789.00

CONTRACT AMOUNT

Dave Ahlvers

THE TERMS OF SETTLEMENT OUTLINED ABOVE ARE HEREBY AGREED TO:

,5,286.2500

5286.2500

\$1,000

\$5,286.25

\$5,286.25

(\$17,945.00)

Change Order No. 007
Contract ID 110121-301

Line Item Number:	Reason Code	Description; and Reason; for Change
0300	VE	VE - Line no. 0300 - Class A Excavation - Underrun: In accordance with Section 104.6 of the Missouri Standard Specifications for Highway Construction, the contractor submitted a Value Engineering proposal to reduce the overall length of the temporary by pass associated with the Bridge R05031 re-construction portion of the contract. Since the overall length of the designed temporary bypass was intended to allow adequate storage of contractor material and equipment, the proposal was accepted. Therefore, this Change Order is necessary to adjust the quantities associated with the Value Engineering Proposal. Calculated quantities are displayed in attached documentation. All measurements were made in accordance with Standard Specifications.
0310	VE	VE - Line no. 0310 - Embankment in Place - Underrun: In accordance with Section 104.6 of the Missouri Standard Specifications for Highway Construction, the contractor submitted a Value Engineering proposal to reduce the overall length of the temporary by pass associated with the Bridge R05031 re-construction portion of the contract. Since the overall length of the designed temporary bypass was intended to allow adequate storage of contractor material and equipment, the proposal was accepted. Therefor e, this Change Order is necessary to adjust the quantities associated with the Value Engineering Proposal. Calculated quantities are displayed in attached documentation. All measurements were made in accordance with Standard Specifications.
0320	VE	VE - Line no. 0320 - Compacting Embankment - Underrun: In accordance with Section 104.6 of the Missouri Standard Specifications for Highway Construction, the contractor submitted a Value Engineering proposal to reduce the overall length of the temporary bypass associated with the Bridge R05031 re-construction portion of the contract. Since the overall length of the designed temporary bypass was intended to allow adequate storage of contractor material and equipment, the proposal was accepted. Theref ore, this Change Order is necessary to adjust the quantities associated with the Value Engineering Proposal. Calculated quantities are displayed in attached documentation. All measurements were made in accordance with Standard Specifications.
0360	VE	VE - Line no. 0360 - Gravel (A) or Crushed Stone (B) - Underrun: In accordance with Section 104.6 of the Missouri Standard Specifications for Highway Construction, the contractor submitted a Value Engineering proposal to reduce the overall length of the temporary bypass associated with the Bridge R05031 re-construction portion of the contract. Since the overall length of the designed temporary bypass was intended to allow adequate storage of contractor material and equipment, the proposal was accepte d. Therefore, this Change Order is necessary to adjust the quantities associated with the Value Engineering Proposal. Calculated quantities are displayed in attached documentation. All measurements were made in accordance with Standard Specifications.

Line Item Number	Reason 'Gode	Description and Reason for Change
5004	VE	VE - Line no. 5004 - Misc. Costs, Value Engineering 50/50 Savings - Overrun: Settlement of Costs based upon a Value Engineering 50/50 Savings Summary totalling \$5,286.25. In accordance with Section 104.6 of the Missouri Standard Specifications for High way Construction, the contractor submitted a Value Engineering proposal to reduce the overall length of the temporary bypass associated with the Bridge R05031 re-construction portion of the contract. Since the overall length of the designed temporary bypass was intended to allow adequate storage of contractor material and equipment, the proposal was accepted. Therefore, this Change Order is necessary to adjust the quantities associated with the Value Engineering Proposal. Calculated quantities are d isplayed in attached documentation. The savings generated by this Value Engineering proposal resulted from reduced quantities of Class A Excavation, Embankment in Place, Compacting Embankment, and Crushed Stone (B). All measurements were made in accord ance with Standard Specifications.

Missouri Department of Transportation



Jerad Noland, P.E., Resident Engineer

Hannibal Project Office
Construction Division
P.O. Box 1067
Hannibal, MO 63401
(573) 248-2441
Fax (573) 248-2445
Toll free 1-888 ASK MoDOT

November 10, 2011

Subject:

Value Engineering Calculations - Temporary Bypass

Contract ID 110121-301 Job No. J3B0801K Route E, Ralls County

Line no. 0300

Class A Excavation

Plan Quantity 4,774 cy
Final Quantity 3.044 cy
Underrun Quantity 1,730 cy

Line no. 0310 Embankment in Place

Plan Quantity 1,537 cy
Final Quantity 838 cy
Underrum Quantity 699 cy

Line no. 0320 Compacting Embankment

Plan Quantity 416 cy Final Quantity 403 cy Underrun Quantity 13 cy

Line no. 0360 Crushed Stone (B)

Plan Quantity 148 ton
Final Quantity 102 ton
Underrun Quantity 46 ton

Line no. 5004 50/50 Value Engineering Savings

This line item is related to the 50/50 savings split associated with the shortening of the temporary bypass for the above-mentioned project. Clarification of the Class A portion of the 50/50 savings calculations. Although the Design plans estimated an overall quantity of 4,774 cy, the Final quantity of 3,044 cy was determined. This quantity difference is a combination of the differences in design estimates and actual field elevations and conditions as well as the savings generated by reducing the overall length of the bypass. The amount of Class A Excavation, associated with the removal of the temporary bypass, that would be associated with the 50/50 savings was determined by calculating the reduction of material necessary to construct the temporary bypass initially. These calculations are as follows:

Embankment in Place		699 cy
Compacting Embankment		13 cy
	on x 1.33 ton/cy)	35 cy
Calculated Class A Savings associated wi	ith VE	747 ey
50/50 Savings	•	
Line no. 0300 - Class A Excavation	(747 cy x \$7.50)	\$5,602.50
Line no 0310 - Embankment in Place	(699 cv x \$4.00)	\$2,796.00

50/50 \$	Savings Split	\$5,286.25
Total S	Savings	\$10,572.50
Line no. 0360 - Crushed Stone (B)	(46 ton x \$45.00)	<u>\$2,070.00</u>
Line no. 0320 - Compacting Embankment	(13 cy x \$8.00)	\$104.00
Line no. 0310 - Embankment in Place	(699 cy x \$4.00)	\$2,796.00

[&]quot;Our mission is to provide a world-class transportation experience that delights our customers and promotes a prosperous Missouri."

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- o Bridge/Structure/Footings
- o Drainage Structures (RCP, RCB, CMP's, ect.)
- ✓ TCP/MOT
- o Paving (PCCP, ect.)
- o Grading/MSE Walls
- o Signal/Lighting/ITS
- o Misc

SUMMARY OF PROPOSAL (If needed, condense summary to a couple of lines) This VECP shortens the length of the temporary bypass for the project.

SCANNING OF DOCUMENT
If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.

Chy-Sperie



Approved VE Proposal for Rte. E Bypass Modification Jerad R Noland to: ryan

Cc: Macy.Rodenbaugh, Charles S Spegal

05/25/2011 11:12 AM

	Jerad R Noland	Approved VE Proposal for Rte. E Bypass Modification
L		

Ryan,

Here is a copy of the Approval concerning the Value Engineering Proposal concerning the Ralls County, Rte. E bypass modification. As per the comments listed in the VE Proposal, reduction in the overall length of the bypass is approved. However, field modifications will be necessary to insure safe navigation for the public. Therefore, the reverse curves at the south end of the bypass will need to match the reverse curves at the north end.

Let me know if you have any questions or comments. thanks.



Value Engineering Proposal (Approved), Rte. E Bypass.pdf

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